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**1 XML: Schemapath, a minimal extension to xml schema for conditional constraints**

Claudio Sacerdoti Coen, Paolo Marinelli, Fabio Vitali

May 2004 **Proceedings of the 13th conference on World Wide Web**Full text available: [pdf\(198.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the past few years, a number of constraint languages for XML documents has been proposed. They are cumulatively called *schema languages* or validation languages and they comprise, among others, DTD, XML Schema, RELAX NG, Schematron, DSD, xlinkit. One major point of discrimination among schema languages is the support of co-constraints, or co-occurrence constraints, e.g., requiring that attribute A is present if and only if attribute B is (or is not) present in the same element. Although ...

**Keywords:** co-constraints, schema languages, schemapath, xml

**2 Web site analysis and customization: Practical semantic analysis of web sites and documents**

Thierry Despeyroux

May 2004 **Proceedings of the 13th conference on World Wide Web**Full text available: [pdf\(90.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Web sites are now ordinary products, it is necessary to explicit the notion of quality of a Web site. The quality of a site may be linked to the easiness of accessibility and also to other criteria such as the fact that the site is up to date and coherent. This last quality is difficult to insure because sites may be updated very frequently, may have many authors, may be partially generated and in this context proof-reading is very difficult. The same piece of information may be found in different ...

**Keywords:** XML, consistency, content management, formal semantics, information system, knowledge management, logic programming, quality, web engineering, web site evolution, web sites

**3 Agents, interactions, mobility, and systems (AIMS): Knowledge-based conversational agents and virtual storytelling**

Paul Tarau, Elizabeth Figa

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**Full text available: [pdf\(461.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We describe an architecture for building speech-enabled conversational agents, deployed as self-contained Web services, with ability to provide inference processing on very large

knowledge bases and its application to voice enabled chatbots in a virtual storytelling environment. The architecture integrates inference engines, natural language pattern matching components and story-specific information extraction from RDF/XML files. Our Web interface is dynamically generated by server side agents s ...

**Keywords:** FrameNet and Open Mind-based knowledge processing, WordNet, agent architectures, agentbased Web services, conversational agents, logic programming, natural language and speech processing, virtual storytelling

4 Information access and retrieval (IAR): A knowledge based system for content-based retrieval of Scalable Vector Graphics documents 

Eugenio Di Sciascio, Francesco M. Donini, Marina Mongiello

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  [pdf\(232.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scalable Vector Graphics (SVG), the novel XML based language for describing two-dimensional graphics, is now a W3C standard and it is likely to become popular on the Internet, due to its inherent advantages over raster image formats in several domains. We present a system for semantic based retrieval by content of SVG. The system is endowed of a web crawler for documents search and a graphical interface for query by sketch. The approach adopted in the system implements a simple des ...

5 Coordination models, languages and applications (CM): WSSecSpaces: a secure data-driven coordination service for Web Services applications 

Roberto Lucchi, Gianluigi Zavattaro

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  [pdf\(157.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web Services standards and protocols (WSDL, UDDI, SOAP, etc.) are the basis of a novel technology supporting Web based applications. Web Services are components offering ports at which service invocations can be sent using XML-based protocols. The tools currently proposed for specifying and programming the interdependencies among Web Services (BPEL, BizTalk, etc.) support the description of the flow of service invocation needed among collaborating Web Services in order to complete a specific tas ...

**Keywords:** Linda, Web Services, coordination languages, security

6 Database theory, technology and applications (DTTA): VCR indexing for fast event matching for highly-overlapping range predicates 

Kun-Lung Wu, Shyh-Kwei Chen, Philip S. Yu

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  [pdf\(247.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fast matching of events against a large number of range predicates is important for many applications. We present a novel VCR indexing scheme for highly-overlapping 2D range predicates. VCR stands for *virtual construct rectangle*. Each predicate is decomposed into one or more VCRs, which are then considered to be activated. The predicate ID is then stored in the ID lists associated with these activated VCRs. Event matching is conceptually simple. For each event point, the search result is ...

**Keywords:** Pub/Sub, VCR indexing, continual queries, event matching, predicate indexing, virtual construct rectangles

7 Manipulating OO documents with Ruby 

James Britt

March 2004 **Linux Journal**, Volume 2004 Issue 119

Full text available: [html](#)(24.17 KB) Additional Information: [full citation](#), [abstract](#)

XML and Ruby let your scripts and your office suite handle the same files.

**8 Database principles: XPath query containment**

Thomas Schwentick

March 2004 **ACM SIGMOD Record**, Volume 33 Issue 1

Full text available: [pdf](#)(202.60 KB) Additional Information: [full citation](#), [references](#)

**9 Automating XML documents transformations: a conceptual modelling based approach**

A. Boukottaya, C. Vanoirbeek, F. Paganelli, O. Abou Khaled

January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31**

Full text available: [pdf](#)(366.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The growing use of XML mark-up language has made a large amount of heterogeneous XML documents widely available. As the number of applications that utilize heterogeneous XML documents grows, the importance of XML documents transformations increases greatly. A serious obstacle for translating directly between two XML documents, using languages like XSLT, is that a mapping between the two XML representations needs to be carefully specified by a human expert. Current research attempts to address th ...

**Keywords:** Layered Interoperability Model for XML Schemas, automating XML documents transformations, conceptual modelling, semantic matching

**10 A logic you can count on**

Silvano Dal Zilio, Denis Lugiez, Charles Meyssonnier

January 2004 **ACM SIGPLAN Notices , Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 39 Issue 1

Full text available: [pdf](#)(172.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We prove the decidability of the quantifier-free, static fragment of ambient logic, with composition adjunct and iteration, which corresponds to a kind of regular expression language for semistructured data. The essence of this result is a surprising connection between formulas of the ambient logic and counting constraints on (nested) vectors of integers. Our proof method is based on a new class of tree automata for unranked, unordered trees, which may result in practical algorithms for deciding ...

**Keywords:** Presburger arithmetic, ambient, semi-structured data, substructural logic, tree automata

**11 Containment and equivalence for a fragment of XPath**

Gerome Miklau, Dan Suciu

January 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 1

Full text available: [pdf](#)(367.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XPath is a language for navigating an XML document and selecting a set of element nodes. XPath expressions are used to query XML data, describe key constraints, express transformations, and reference elements in remote documents. This article studies the containment and equivalence problems for a fragment of the XPath query language, with applications in all these contexts. In particular, we study a class of XPath queries that contain branching, label wildcards and can express descendant relation ...

**Keywords:** Tree pattern matching, XPath expressions, query containment, query equivalence

**12 Monadic datalog and the expressive power of languages for Web information extraction**

Georg Gottlob, Christoph Koch

January 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 1

Full text available:  [pdf\(277.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Research on information extraction from Web pages (wrapping) has seen much activity recently (particularly systems implementations), but little work has been done on formally studying the expressiveness of the formalisms proposed or on the theoretical foundations of wrapping. In this paper, we first study monadic datalog over trees as a wrapping language. We show that this simple language is equivalent to monadic second order logic (MSO) in its ability to specify wrappers. We believe that MSO ha ...

**Keywords:** Complexity, HTML, MSO, expressiveness, information extraction, monadic datalog, regular tree languages, web wrapping

**13 Path sharing and predicate evaluation for high-performance XML filtering**

Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer

December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Full text available:  [pdf\(543.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite State Machines (FSMs) can provide the basis for highly scalable structure-oriented XML filtering systems. The XFilter system [Altinel and Franklin 2000] was the first published FSM-based XML filtering approach. XFilter used a separate FSM per pa ...

**Keywords:** Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

**14 Editing and authoring: A structural adviser for the XML document authoring**

Boris Chidlovskii

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available:  [pdf\(207.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Since the XML format became a *de facto* standard for structured documents, the IT research and industry have developed a number of XML editors to help users produce structured documents in XML format. However, the manual generation of structured documents in XML format remains a tedious and time-consuming process because of the excessive verbosity and length of XML code. In this paper, we design a structural adviser for the XML document authoring. The adviser intervenes at any step of the ...

**Keywords:** XML markup, data mining, structural pattern, suggestion

**15 Document querying and transformation: Lazy XSL transformations**

Steffen Schott, Markus L. Noga

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available:  [pdf\(335.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a lazy XSLT interpreter that provides random access to the transformation result. This allows efficient pipelining of transformation sequences. Nodes of the result tree are computed only upon initial access. As these computations have limited fan-in, sparse output coverage propagates backwards through the pipeline. In comparative measurements with traditional eager implementations, our approach is on par for complete coverage and excels as coverage becomes sparser. In contrast to eag ...

**16 Document based architecture & applications: Model driven architecture based XML processing**

Ivan Kurtev, Klaas van den Berg

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: [pdf\(132.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A number of applications that process XML documents interpret them as objects of application specific classes in a given domain. Generic interfaces such as SAX and DOM leave this interpretation completely to the application. Data binding provides some automation but it is not powerful enough to express complex relations between the application model and the document syntax. Since document schemas play the role of models of documents we can define document processing as model-to-model transformat ...

**Keywords:** MDA, XML processing, transformations

**17 Document querying and transformation: Extending xQuery with transformation operators**

Emmanuel Bruno, Jacques Le Maitre, Elisabeth Murisasco

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: [pdf\(216.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose to extend XQuery - the XML query language - with a set of transformation operators which will produce a copy of an XML tree in which some subtrees will be inserted, replaced or deleted. These operators - very similar to the ones proposed for updating an XML document - greatly simplify the expression of some queries in making it possible to express only the modified part of a tree instead of its whole reconstruction. We compare the expressivity of XQuery extended in this ...

**Keywords:** XML, transformations, xQuery

**18 Document querying and transformation: XPath on left and right sides of rules: toward compact XML tree rewriting through node patterns**

Jean-Yves Vion-Dury

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: [pdf\(224.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XPath [3, 5] is a powerful and quite successful language able to perform complex node selection in trees through compact specifications. As such, it plays a growing role in many areas ranging from schema specifications, designation and transformation languages to XML query languages. Moreover, researchers have proposed elegant and tractable formal semantics [8, 9, 10, 14], fostering various works on mathematical properties and theoretical tools [10, 13, 12, 14]. We propose here a novel way to con ...

**19 Document formatting: Improving formatting documents by coupling formatting systems**

Fateh Boulmaiz, Cécile Roisin, Frédéric Bes

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: [pdf\(449.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a framework for coupling an existing formatting system such as SMIL[7] and Madeus[13] with a formatting control system XEF[10]. This framework allows the coupling process to be performed at two levels: 1) the language level, which is concerned with how to link the control features of XEF and the elements of an existing formatting system, and 2) the formatter level, which deals with the creation of a new formatter by formatter composition. The overall objective is to prov ...

**Keywords:** language coupling, presentation language, software coupling

**20 Posters: Multimedia streaming services: specification, implementation, and retrieval**

Björn Althun, Martin Zimmermann

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on  
Multimedia information retrieval**Full text available: [!\[\]\(950a62bbddad88d64435fd35607dfc42\_img.jpg\) pdf\(263.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The central purpose of this paper is to present a novel framework supporting the specification, the implementation and retrieval of media streaming services. It provides an integrated service development environment comprising of a streaming service model, a service specification language and several implementation and retrieval tools. Our approach is based on a clear separation of a streaming service specification, and its implementation by a distributed application and can be used for differen ...

**Keywords:** XML, multimedia retrieval, streaming service

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Relevance scale **181 DTD inference for views of XML data**

Yannis Papakonstantinou, Victor Vianu

May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**Full text available:  [pdf\(347.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study the inference of Data Type Definitions (DTDs) for views of XML data, using an abstraction that focuses on document content structure. The views are defined by a query language that produces a list of documents selected from one or more input sources. The selection conditions involve vertical and horizontal navigation, thus querying explicitly the order present in input documents. We point several strong limitations in the descriptive ability of current DTDs and the need for extendi ...

**182 Extending document management systems with user-specific active properties**

Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2Full text available:  [pdf\(166.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

**Keywords:** active properties, component software, document management systems, document services, user experience

**183 XML and information retrieval: a SIGIR 2000 workshop**

David Carmel, Yoelle Maarek, Aya Soffer

April 2000 **ACM SIGIR Forum**, Volume 34 Issue 1Full text available:  [pdf\(502.67 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)**184 XML dataspaces for mobile agent coordination**

Giacomo Cabri, Letizia Leonardi, Franco Zambonelli

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: [pdf\(785.40 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**185 UnQL: a query language and algebra for semistructured data based on structural recursion**

Peter Buneman, Mary Fernandez, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**,  
Volume 9 Issue 1

Full text available: [pdf\(414.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents structural recursion as the basis of the syntax and semantics of query languages for semistructured data and XML. We describe a simple and powerful query language based on pattern matching and show that it can be expressed using structural recursion, which is introduced as a top-down, recursive function, similar to the way XSL is defined on XML trees. On cyclic data, structural recursion can be defined in two equivalent ways: as a recursive function which evaluates the data t ...

**Keywords:** Optimization, Query language, Semistructured data, Structural recursion, XML, XSL

**186 Comparative analysis of five XML query languages**

Angela Bonifati, Stefano Ceri

March 2000 **ACM SIGMOD Record**, Volume 29 Issue 1

Full text available: [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

XML is becoming the most relevant new standard for data representation and exchange on the WWW. Novel languages for extracting and restructuring the XML content have been proposed, some in the tradition of database query languages (i.e. SQL, OQL), others more closely inspired by XML. No standard for XML query language has yet been decided, but the discussion is ongoing within the World Wide Web Consortium and within many academic institutions and Internet-related major companies. We present ...

**187 Syndication with JML**

Robert Barta, Markus Schranz

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: [pdf\(777.72 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** XML, multi-target publishing, reactive databases, syndication, triggered republishing

**188 A debate on language and tool support for design patterns**

Craig Chambers, Bill Harrison, John Vlissides

January 2000 **Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: [pdf\(2.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Design patterns have earned a place in the developer's arsenal of tools and techniques for software development. They have proved so useful, in fact, that some have called for their promotion to programming language features. In turn this has rekindled the age-old debate over the mechanism that belong in programming languages versus those that are better served by tools. The debate comes full circle when one contemplates code generation and methodological tool support for patterns. The auth ...

**Keywords:** design patterns, programming languages, software development, tools

**189 XML linking**

Steven J. DeRose

December 1999 **ACM Computing Surveys (CSUR)**Full text available:  [pdf\(154.81 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**190 Unlinking the link**

Janet Verbyla

December 1999 **ACM Computing Surveys (CSUR)**Full text available:  [pdf\(29.98 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**191 SST: using single-sourcing, SGML, and teamwork for documentation**

Carl Stieren

October 1999 **Proceedings of the 17th annual international conference on Computer documentation**Full text available:  [pdf\(784.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Suppose you don't have a fancy database-driven system to generate your documentation. How can you develop single-source documentation for output in multiple formats, without having to store your source in a specific format that will soon become obsolete? The answer is to use a combination of your own SGML or XML tags to mark up your documentation and a simple OmniMark® program to create each output format and presentation style. There's also a third ingredient: teamwork. As much as any ...

**Keywords:** HTML, SGML, XML, print, single-source, teamwork

**192 Haskell and XML: generic combinators or type-based translation?**

Malcolm Wallace, Colin Runciman

September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN international conference on Functional programming**, Volume 34 Issue 9Full text available:  [pdf\(1.48 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present two complementary approaches to writing XML document-processing applications in a functional language. In the first approach, the generic tree structure of XML documents is used as the basis for the design of a library of combinators for generic processing: selection, generation, and transformation of XML trees. The second approach is to use a type-translation framework for treating XML document type definitions (DTDs) as declarations of algebraic data types, and a derivation of the cor ...

**193 JUSTICE: a judicial search tool using intelligent concept extraction**

James Osborn, Leon Sterling

June 1999 **Proceedings of the seventh international conference on Artificial intelligence and law**Full text available:  [pdf\(893.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A legal knowledge based system called JUSTICE is presented which provides conceptual information retrieval for legal cases. JUSTICE can identify heterogeneous representations of concepts across all major Australian jurisdictions. The knowledge representation scheme used for legal and common sense concepts is inspired by human processes for the identification of concepts and the expected order and location of concepts. These are supported by flexible search functions and various string utili ...

**Keywords:** conceptual information retrieval, intelligent law information systems, intelligent research aid, legal WWW agent, legal knowledge representation, legal ontology

194 Record-boundary discovery in Web documents

D. W. Embley, Y. Jiang, Y.-K. Ng

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2Full text available:  pdf(1.36 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Extraction of information from unstructured or semistructured Web documents often requires a recognition and delimitation of records. (By "record" we mean a group of information relevant to some entity.) Without first chunking documents that contain multiple records according to record boundaries, extraction of record information will not likely succeed. In this paper we describe a heuristic approach to discovering record boundaries in Web documents. In our approach, we capture ...

195 Storing semistructured data with STORED

Alin Deutsch, Mary Fernandez, Dan Suciu

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2Full text available:  pdf(1.58 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Systems for managing and querying semistructured-data sources often store data in proprietary object repositories or in a tagged-text format. We describe a technique that can use relational database management systems to store and manage semistructured data. Our technique relies on a mapping between the semistructured data model and the relational data model, expressed in a query language called STORED. When a semistructured data instance is given, a STORED mapping can be generated automati ...

196 Type inference for queries on semistructured data

Tova Milo, Dan Suciu

May 1999 **Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**Full text available:  pdf(1.37 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)197 Query automata

Frank Neven, Thomas Schwentick

May 1999 **Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**Full text available:  pdf(1.25 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)198 Implementing catalog clearinghouses with XML and XSL

Andrew V. Royappa

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**Full text available:  pdf(753.90 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** SGML, XML, XSL, e-commerce

199 Database techniques for the World-Wide Web: a survey

Daniela Florescu, Alon Levy, Alberto Mendelzon

September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3Full text available:  pdf(1.79 MB)Additional Information: [full citation](#), [citations](#), [index terms](#)

**200** Conjunctive constraint mapping for data translation

Chen-Chuan K. Chang, Hector Garcia-Molina

May 1998 **Proceedings of the third ACM conference on Digital libraries**Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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